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8発明の名称 車体側方照明灯並びにその装置

②特 類 昭61-32591

鳳 見

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明 知 書

1. 発明の名称 車体側方照明灯並びにその装置 2. 特許請求の範囲

- 1.サイドミラー枠又は取付部に照射灯を、方向 転換可能に取付けたことを特徴とする車体側 方照明灯。
- 2.電球の内部片面を反射体とし、枠体中に前記 電球を上下方向に回動可能に取付け、前記枠 体を自動車のサイドミラーの枠に左右方向に 回動可能に埋設したことを特徴とする車体側 方照明灯の照明装置。
- 3. 発明の詳細な説明

「産業上の利用分野」

この発明は自動車等の車体の側方向を上下左右に調節可能に照射し、暗所運転時において車体の側面又は車体の側方向等を容易に照射することの出来る照明打並びにその照明装置を提供するものである。

「従来の技術」

従来、自動車等車輌においては前方向又は後方

向はヘッドライト、パックランプ等によって完全に照射し暗所運転においても、何等不便を感じない次第であるが、車体の個方向並びに近接した上下左右側の対象物に対しては照射手段を存しなかった次第である。

「発明が解決しようとする問題点」

前記のように自動車等車輌においては、車体の前方または後方等については暗所においても、 充分照射して運転に支離がない次第であるが、 車体の側面並びに単体の側面に近接した対象面 等を照射する照明手段なく、暗所における運転 に頗る不便を感じた次第である。このような不 便を解消する手段を提供するのが本発明の目的 である。

「問題点を解決するための手段」

前記目的を達成させるために、この発明は次のような構成とした。すなわち、この発明においてはサイドミラーの枠体に上下左右に回動出来る照射灯を付設するもので時所においても、必要に応じ、該灯を上下左右に回動照射し、車体



側面又は左右上下方向に近接した対象物等を任意完全に照射することが出来、支障なく運転をの他の操作が出来るもので、前記目的を完選するものである。

「実施例並びに作用」

 10等を作動させ、ギャリ1により被逐して上下左右に回動させるものである。

「髭明の効果」

尚、本発明実施に当たっては指頭等で手動的に 回動操作出来るようにすると共に、公知の電気 回路を利用して第5回に示す如く車内より隔離

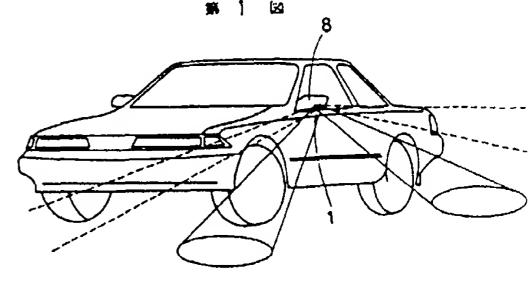
操作も出来るもので、所望により任意構成利用 すべきものである。

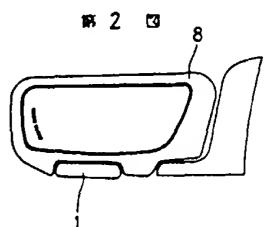
4. 図面の簡単な説明

代理人

添付図面は本発明実施の一例を示すもので、第 1 図は本発明を自動車に取り付けた場合の斜視 図、第2 図はバックミラーの正面図、第3 図は 枠体の斜視図、第4 図は手動式の経断面図、第 5 図は電動式の機構側面図である。

1 … 電球、 2 ……不透明反射体、 3 ……シャフト、 4 …枠体、 5 ……枠体の凹部、 5 ′ ……軸孔、 6 …… 上壁、 7 …螺杆、 8 … バックミラーの枠体、 9 …ナット、 1.0 ……モーター、 1 1 ……ギヤ。





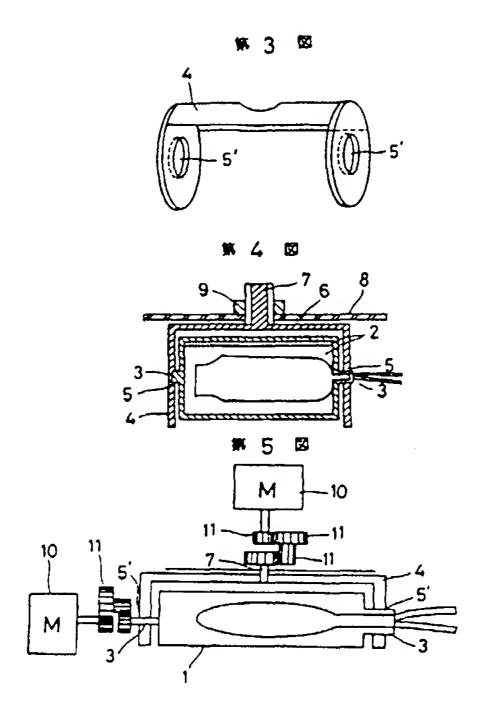
出聊人 山 田 清

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特開昭62-191246(3)



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TRANSLATION

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Request for Examination: Not Requested

Int. Cl.

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AUTOMOBILE ILLUMINATING SIDE LAMP AND ITS DEVICE

Application No.: 61-32591 (1986)

Application Date: February 17, 1986

Inventors: YAMADA, Kiyoshi

Applicant: YAMADA, Kiyoshi

Osaka-shi, Nishinari-ku, Kishisato, 3-2-21-403

1. Title of Invention

AUTOMOBILE ILLUMINATING SIDE LAMP AND ITS DEVICE

2. Claims

[Claim 1]

An automobile illuminating side lamp that is installed with multi-directional capability at either the side-view mirror frame or mounting section.

[Claim 2]

An illuminating device of an automobile side lamp that uses one surface of an interior light bulb as a reflector; the light bulb is mounted so as to move inside of the frame in an up and down direction. The frame rotates in the left and right direction.

3. Detailed Explanation of the Invention

[Field of Industrial Application]

This invention offers an illuminating lamp and its device which adjustably illuminates the side of an automobile, etc. in the up, down, left and right directions; it can be easily illuminate either the side surface or the side direction, etc. of an automobile while it is being driven in the dark.

[Prior Art Technology]

Heretofore, the forward or backward direction of a vehicle (e.g., an automobile, etc.) is completely illuminated by the vehicle's headlights or backup-lamps. This permits convenient driving even in the dark. However, there has not existed any means for illuminating an object that approaches from the sides (up, down, left and right directions) of a vehicle.

[Problems Resolved by the Invention]

As explained above, the front and rear of a vehicle is sufficiently illuminated in the dark to eliminate many night driving difficulties. However, there is no means for illuminating the side of a vehicle and objects approaching the side of the vehicle. As a result, some difficulties exist while driving in the dark. The objective of this invention is to offer a means for resolving these difficulties.

[Means for Resolving Problems]

In order to achieve its objective, this invention offers the following constructions. More specifically, in this invention, an illuminating lamp is able to rotate in the up, down, left and right directions; it is mounted at the frame of side-view mirror. The lamp can be moved so as to illuminate the up, down, left and right directions as needed while driving in the dark. As a result, the side of a vehicle or an object approaching the vehicle from the up, down, left and right directions can be perfectly and optionally illuminated. Therefore, driving and other associated operations are possible without problems. The objective is thus fully achieved.

[Example and Operation]

The attached drawings show one example of this invention and they are explained in detail. Item (1) is a light bulb; a small, highly luminescent light bulb (e.g., a halogen lamp, etc.) is used. Item (2) is a non-transparent reflector provided on the interior of one side of the light bulb. Item (3) is a shaft which is inserted

in the axial direction and protrudes to both ends of the light bulb; it is installed so as to rotate freely by being inserted into U-shaped cavities (5) or shaft holes (5') of both ends of the frame (4) which supports the light bulb. The light bulb rotates in the up and down direction by rotating the light bulb (1) with the fingertips so as to enable broad illumination in the up and down directions. Item (6) is the upper wall of the frame (5) (sic: 4 is the frame). A coil lever (7) is inserted the center section of the upper wall (6) and affixed by a nut (9) to the back of the sideview mirror frame (8). The light bulb (1) then can be rotated in the left and right directions by rotating the frame (4) by the fingertips. In a case of an electrical operation, as shown in Figure 5, it is rotated in the up, down, left and right directions by decelerating a gear (11).

[Effect of the Invention]

This invention is greatly effective in the above mentioned configuration. More specifically, by using this illuminating lamp when backing up, correct parking maneuvers may be achieved; when entering parking garages at night, safety can be assured by the illumination of dark places. Because left and right adjustment is possible, an expanded visual field can be illuminated and safe driving is possible even when cornering on a mountainous road, etc. When the illumination is directed forward, it can be used as an auxiliary lamp. Because the illuminating lamp rotates freely, it is very convenient for changing front and rear tires, putting on

and removing tire chains and other repairs, etc. at night. With commercial vehicles, service can be provided when loading and discharging passengers by illumination the area beneath their feet. Moreover, it can be used as a spotlight because this illuminating lamp freely rotates.

Furthermore, in implementing this invention, it can be manually rotated by the fingertips; it can also be remotely operated from inside the car as shown in Figure 5 by using a commonly known electrical circuit. Therefore, it can use any desired configuration.

4. Simple Explanation of the Drawings

The drawings show an example of this invention.

Figure 1 is a perspective view in a case when this invention is attached to an automobile. Figure 2 is the frontal view of the side-view mirror. Figure 3 is a perspective view of the frame. Figure 4 is vertical section view of the manual mode. Figure 5 is a side view of a mechanism of an electrical mode.

- 11... light bulb
- 22... non-transparent reflector
 - 3... shaft
 - 4... frame
 - 5... U-shaped cavity of frame
 - 5'... shaft hole
 - 6... upper wall
 - 7... coil lever
 - 8... frame of side-view mirror

11... gear

Figure 1:

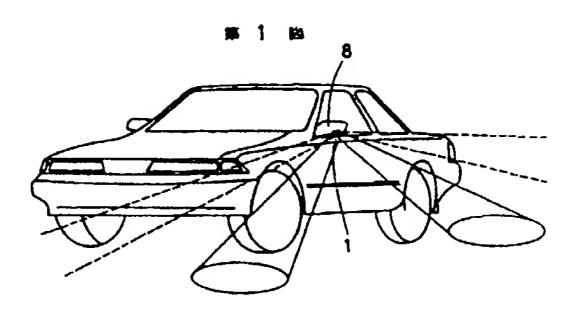


Figure 2:

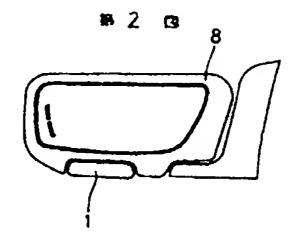


Figure 3:

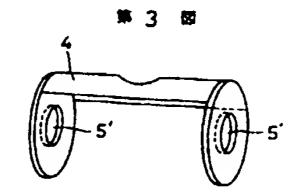


Figure 4:

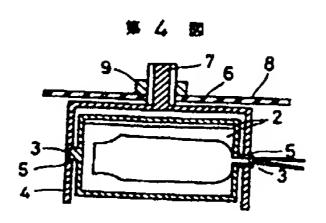
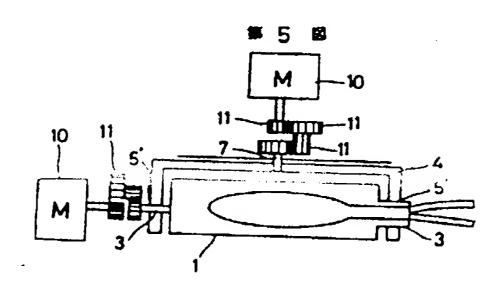


Figure 5:



Patent Applicant: Kiyoshi Yamada